

APPLICANT(S): Fenical et al.

TITLE: SALINOSPORAMIDES AND METHODS FOR USE
THEREOF
Application No.: 10/600,854
Docket No.: UCSD1530-2

File Date: June 20, 2003

FIG. 1

Phylogeny of MAR1

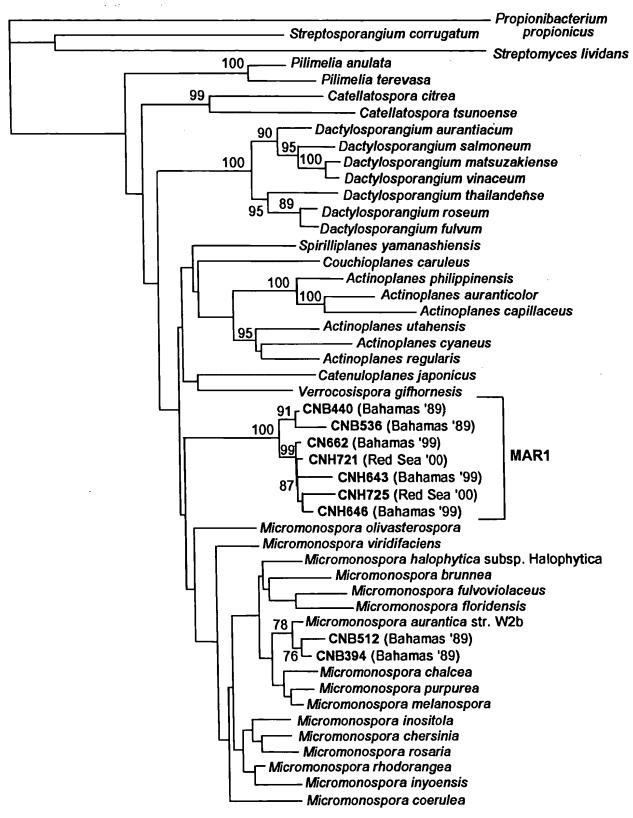


FIG. 2

Etoposide (2)

FIG. 3

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Cytotoxic activity of salinosporamide A (1) and dose response curve

Comp8 (units/ml)

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Sample	Wells	Sample #	OD	Mean Value	Ctr. Avg OD	% Survival	Concentration	IC50
Co03	C8	1	0.013	0.013	1.305	0.958	78.125	0.011
Co04	D8.	2	0.044	0.044	1.305	3.335	19.531	0.011
Co05	E8	3	0.059	0.059	1.305	4.484	4.883	0.011
Co06	F8	4	0.105	0.105	1.305	8.011	1.221	0.011
Co07	G8	5	0.170	0.170	1.305	12.993	0.305	0.011
Co08	H8	6	0.304	0.304	1.305	23.266	0.076	0.011

Standards (mg/ml)

Sample	Concentration	Back Calc Conc	Wells	OD	Mean OD	% Survival	CV %	Ctr. Avg OD	IC50
Sta03	31.250	Range?	C12	0.413	0.413	31.621	0.0	1.305	0.828
Sta04	7.813	Range?	D12	0.542	0.542	41.510	0.0	1.305	0.828
Sta05	1.953	Range?	E12	0.557	0.557	42.660	0.0	1.305	0.828
Sta06	0.488	Range?	F12	0.760	0.760	58.222	0.0	1.305	0.828
Sta07	0.122	Range?	G12	1.287	1.287	98.620	0.0	1.305	0.828
Sta08	0.031	Range?	H12	1.615	1.615	123.764	0.0	1.305	0.828

Smallest standard value: 0.413 Largest standard value: 1.615

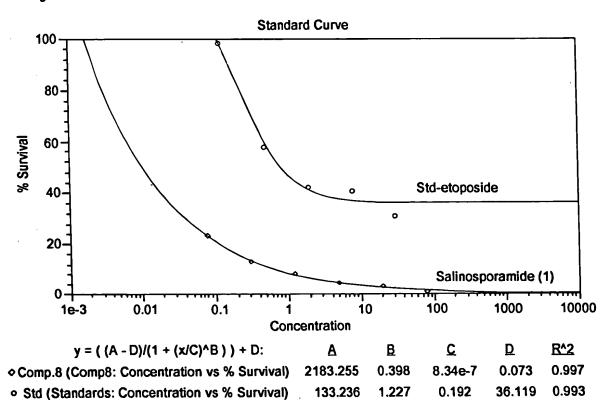


FIG. 4

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Isolation of salinosporamide A (1), separation scheme

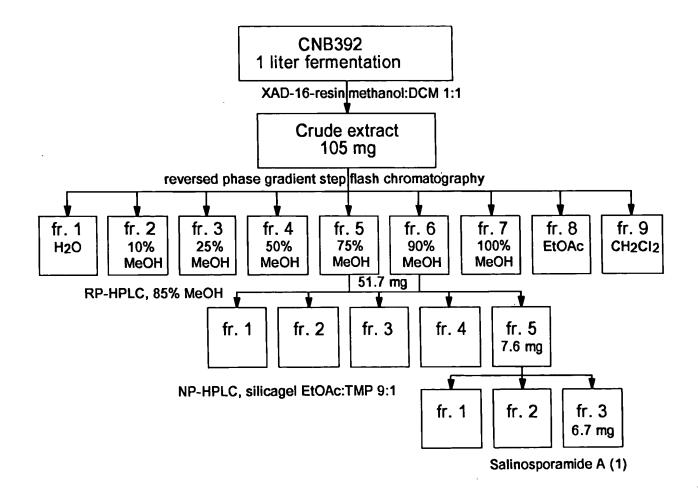
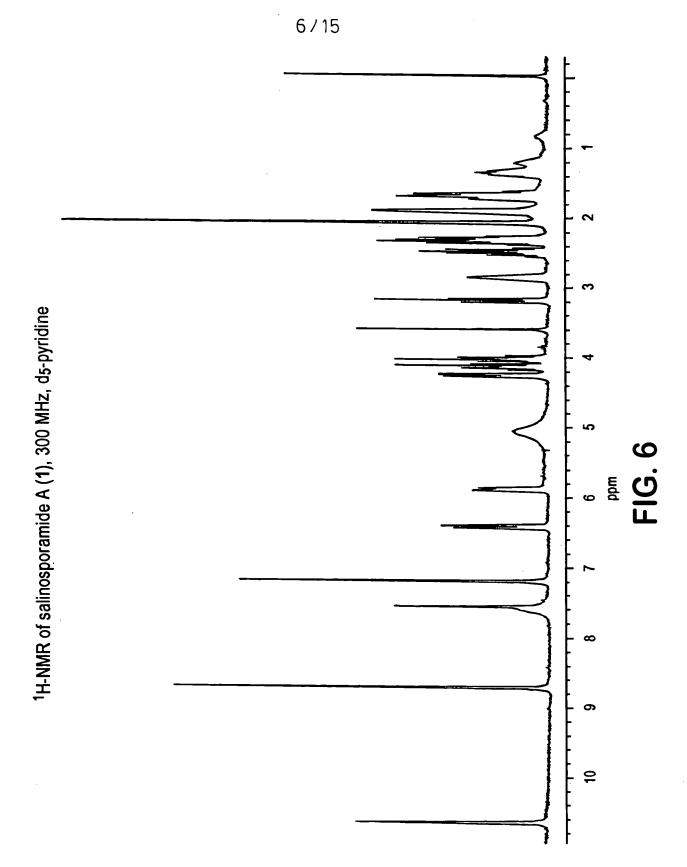


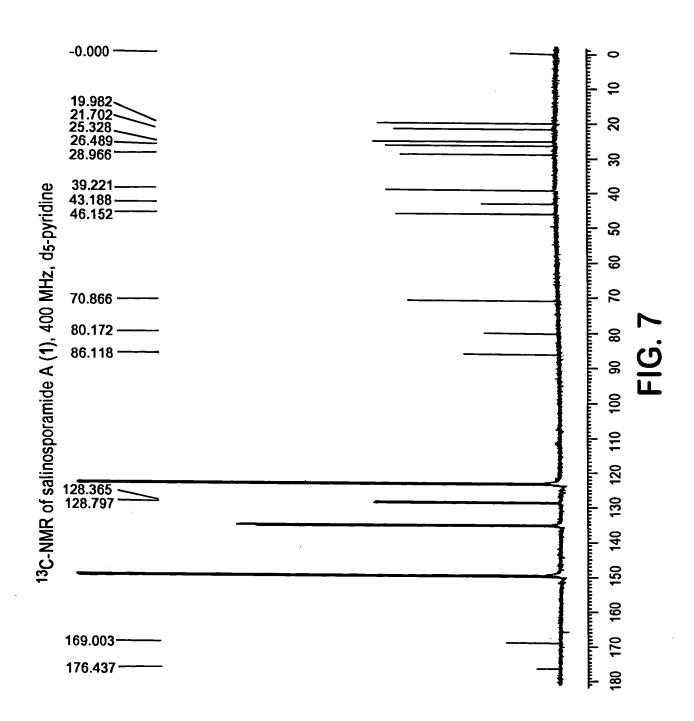
FIG. 5

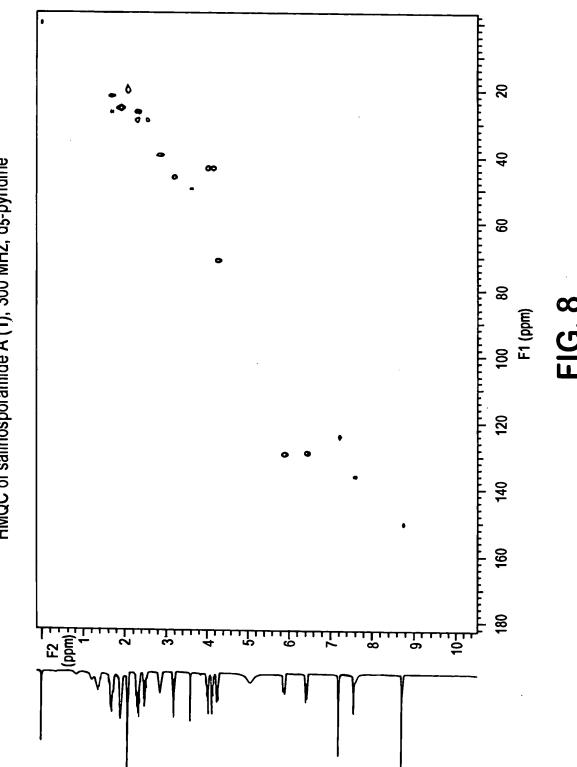
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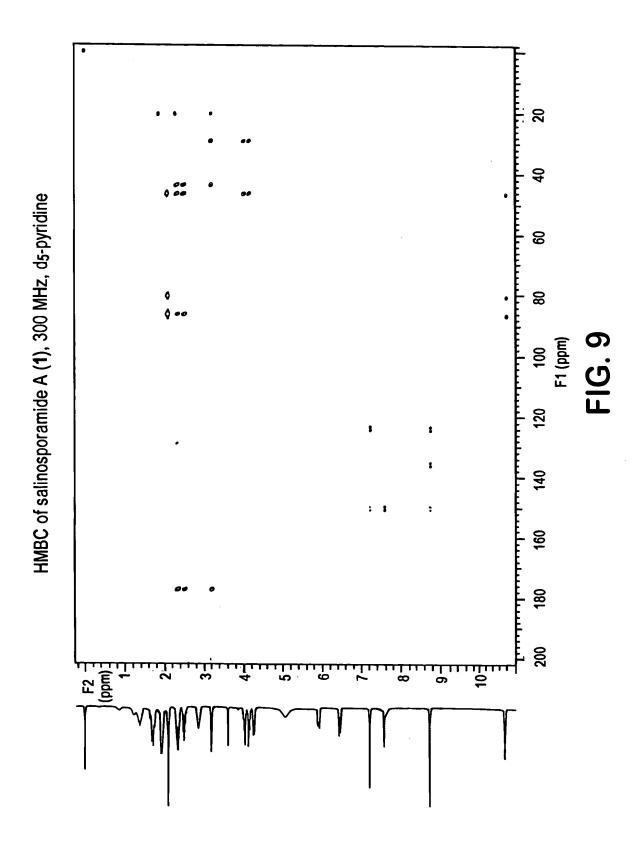
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HMQC of salinosporamide A (1), 300 MHz, ds-pyridine



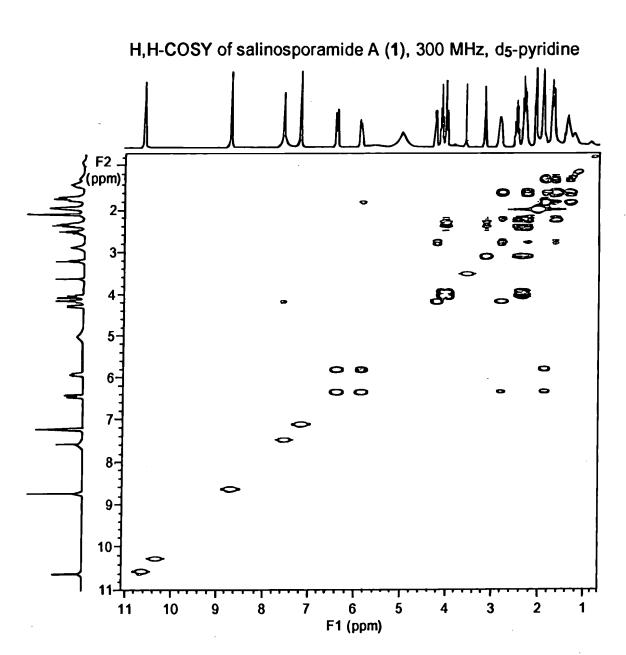


FIG. 10

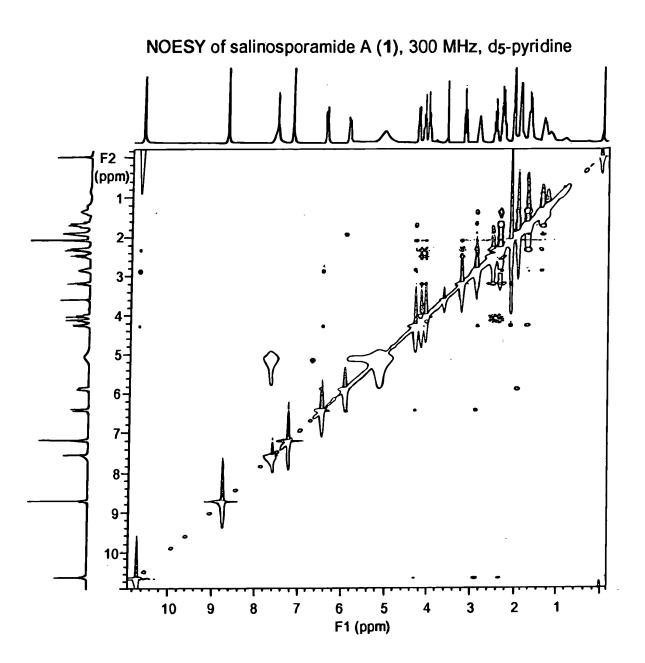


FIG. 11

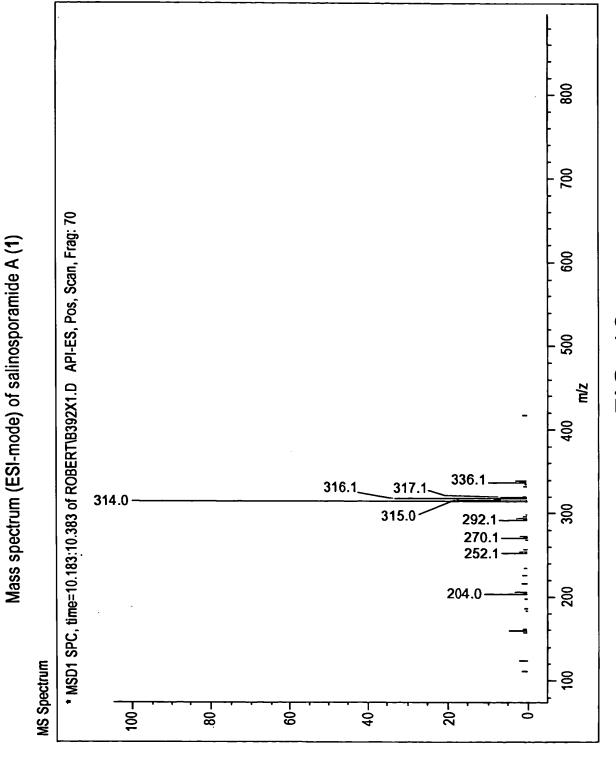
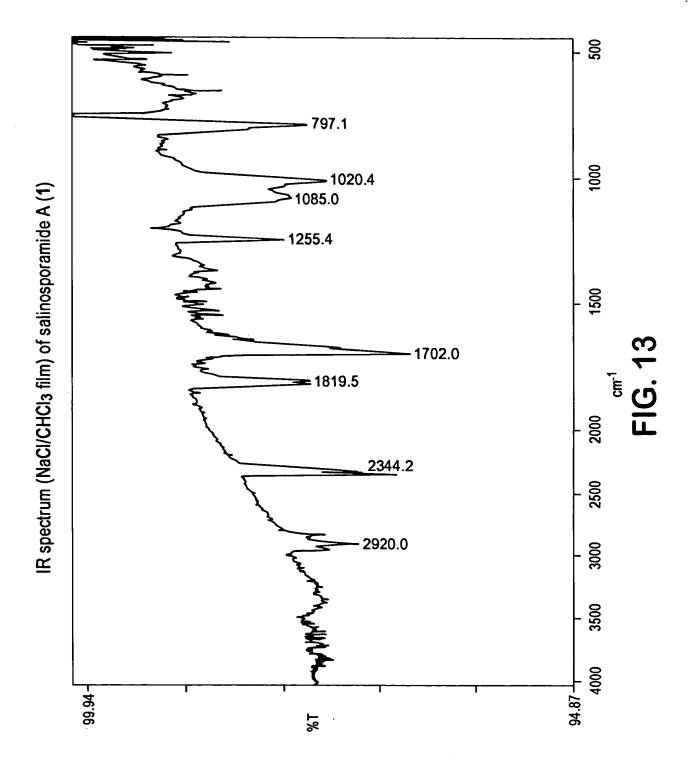


FIG. 12





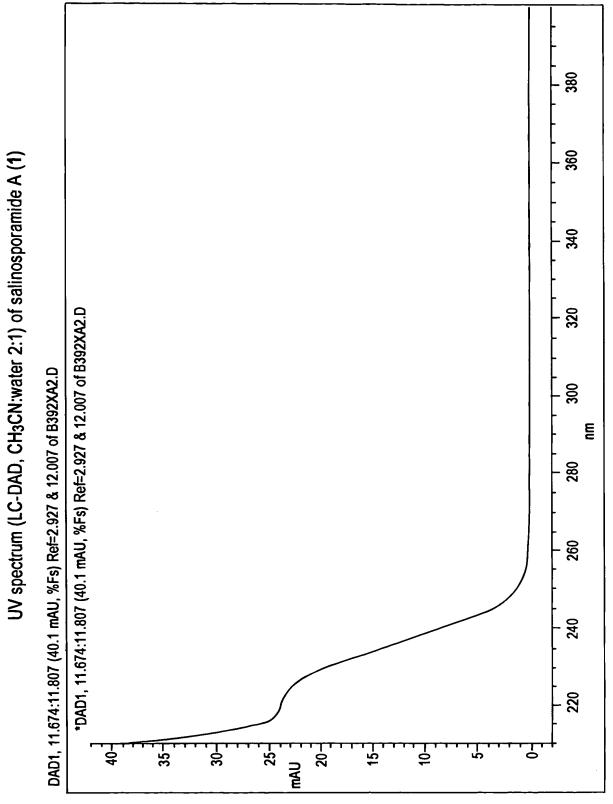


FIG. 14

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Marinospora	A	N	9	၁	n	Ŋ	À	Ŋ	Ŋ	၅
Verrucosi- spora	n	3	٧	V	A	٧	9	Ŋ	ပ	A
Spirilli- planes	Ω	၁	A	A	A	٧	9	3	S	А
Couchio- planes	n	၁	A	A	A	A	9	J	S	Α.
Catenulo- planes	N	3	٧	٧	(d/D)	A	9	(C/N)	၁	А
Pillimelia	2	n	A	A	9	A	٧	N	၁	А
Catellato- spora	n	၁	(AV)	A	A	A	9	(n/c)	3	A
Dactylo- sporangium	n	ე	A	٧	(G/A)	A	9	3	(n/o)	Y _
Micromon- ospora	D	ပ	A	(A/G)	V	¥	9	(a _C)	၁	A
Actinoplanes	D	ပ	A	V	A	A	9	ပ	ပ	Α
Position 16S rDNA	207	219	279	366	467	468	546	615	1116	1456